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IMAGERY
ANALYSIS
DIVISION

PIR

PHOTOGRAPHIC INTELLIGENCE REPORT

VIIET CONG (GUY)
FAN SONG RADAR ANALYSIS

SAM R & D LAUNCH SITE B,
SHUANG-CHENG-TZU MISSILE
TEST CENTER, CHINA

Declass Review by NIMA/DOD

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CIA/PIR 71018

DATE JAN 1967

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SAM R & D LAUNCH SITE B,
SHUANG-CHENG-TZU MISSILE
TEST CENTER, CHINA

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FAN SONG RADAR ANALYSIS, SAM R & D LAUNCH SITE B,
SHUANG-CHENG-TZU MISSILE TEST CENTER, CHINA

This report has been prepared in response to a CIA requirement requesting a re-analysis of the FAN SONG radar located at SAM R & D Launch Site B, Shuang-Cheng-Tzu Missile Test Center, China to determine if this radar is FAN SONG B/C or FAN SONG E.

X1 A FAN SONG radar was first identifiable at launch site B [redacted] [redacted] although the photography was not of sufficient quality to permit identification of the particular model. This was true on subsequent photography until [redacted] On this mission, it can be determined that the radar is definitely not FAN SONG E and is probably FAN SONG B/C. 25X1 25X1

This conclusion is based upon the differences in configuration of FAN SONG B/C and FAN SONG E, and the shadows cast by these respective models (Figure 1, Illustrations A and B). FAN SONG E has two dishes mounted above the horizontal trough with an overall height of these two dishes approximately the same as the height of the vertical trough. On FAN SONG B/C however, these two dishes are absent, and the overall height of the vertical trough extends well above the height of the horizontal trough.

When the shadow from the FAN SONG E falls perpendicular to the long axis of the horizontal trough, so that shadows of individual components are distinguishable, the presence of the two dishes alongside the vertical trough is readily apparent. Conversely, under these same shadow conditions, the absence of these two dishes from the shadow of FAN SONG B/C is just as apparent.

This comparison is presented in Figure 2. Illustration A, Figure 2, shows a recent, good quality photograph of a FAN SONG E under the shadow conditions described above. Annotation 1 indicates the shadow of the vertical trough; Annotation 2 points out the shadows cast by the two dishes above the horizontal trough; Annotation 3 indicates the shadow from the dish located at the end of the horizontal trough. Note that the shadows at Annotations 1 and 2 are approximately the same length, indicating that the objects casting the shadows are approximately the same height.

Illustration B, on the other hand, depicts the radar at Shuang-Cheng-Tzu Missile Test Center, Launch Site B, under approximately the shadow

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conditions described above. Annotation 1 points out the shadow cast by the vertical trough and Annotation 2 indicates the shadow of the horizontal trough. Note that the shadow of the vertical trough is much longer than any other part of the shadow cast by the radar. This indicates that nothing is mounted above the horizontal trough on the radar, therefore, this radar cannot be a FAN SONG E.

In Illustration B, Figure 2, no shadow is apparent from the dish mounted at the end of the horizontal trough. This is due to the shadows not being precisely perpendicular to the long axis of the horizontal trough on the radar, and the shadow of this dish is masked by the shadow of the horizontal trough. Detailed analysis of the radar itself indicates this dish to be present.

In addition to the Shuang-Cheng-Tzu Missile Test Center SAM R & D Facilities, good quality, large scale photography is also available of several deployed CHICOM SAM Sites. In each case where image quality permits an identification, the guidance radar appears to be FAN SONG B/C.

REFERENCES

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DOCUMENTS

NPIC. [] 29 Apr 66, FAN SONG Radar, Shuang-Cheng-Tzu
Missile Test Center, China (TOP SECRET [])

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REQUIREMENT

C-SI6-84,162

CIA/IAD PROJECT

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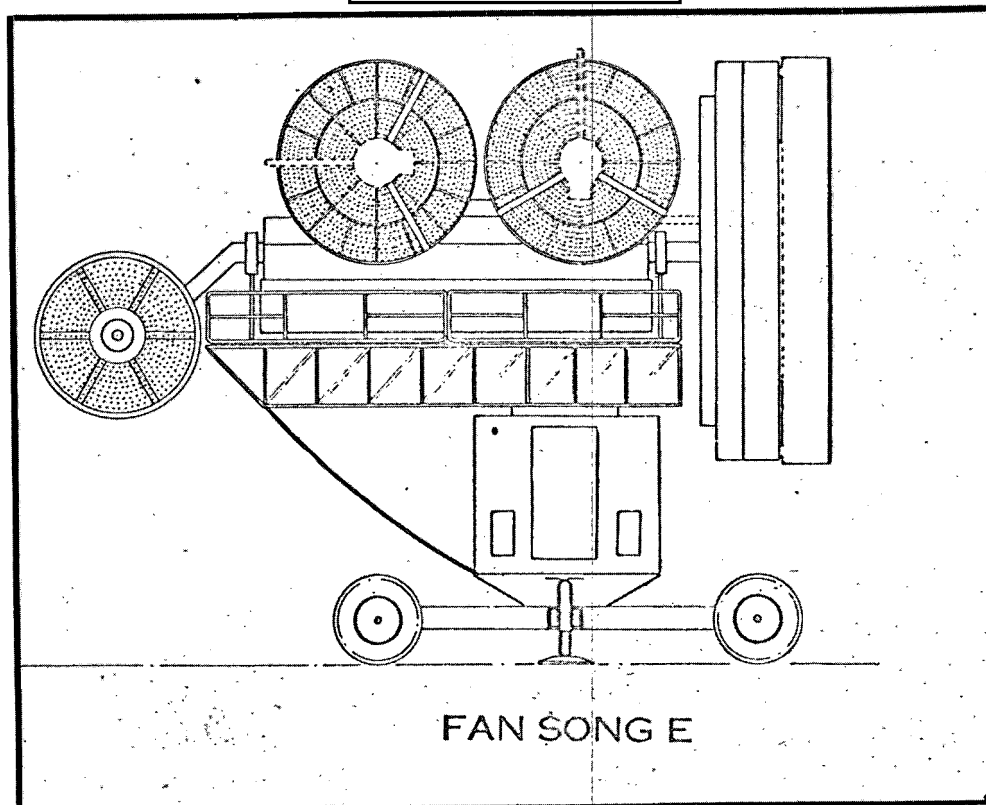
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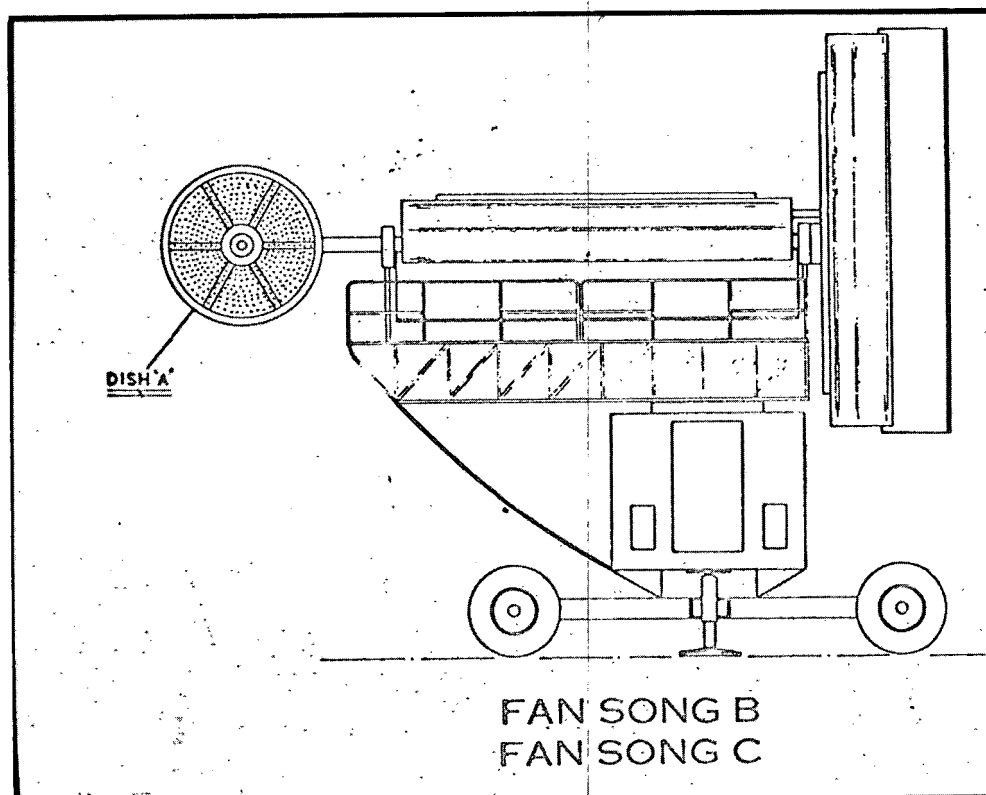
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A



B

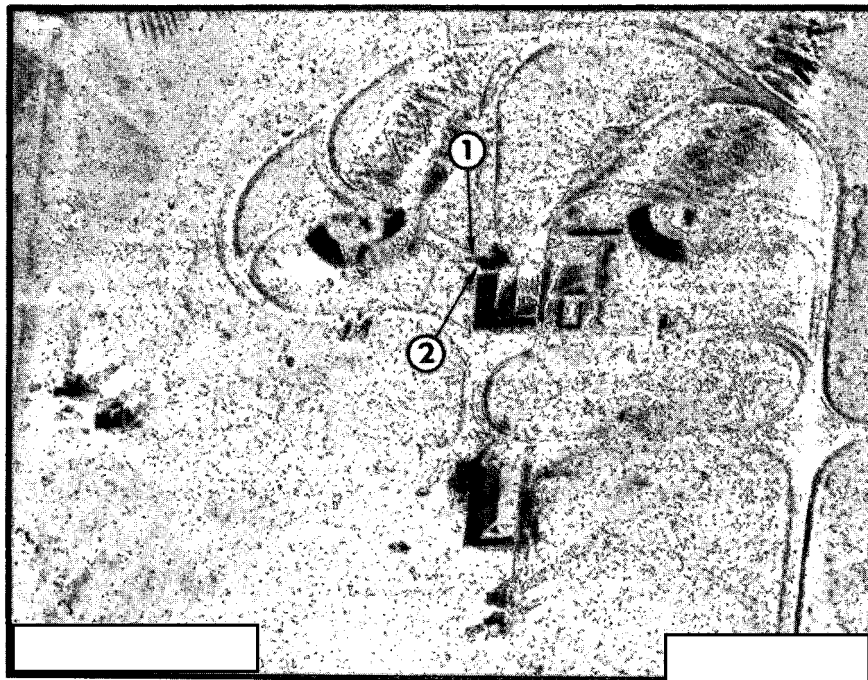
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A

KORDON SAM TRAINING CENTER, USSR

SA-2 SAM SITE NO. 4



B

SHUANG-CHENG-TZU MISSILE TEST CENTER, CHINA

SAM R&D LAUNCH SITE B

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